MRI 2nd Discipline Program
Student Candidate Information

Thank you for your interest in the NAIT MRI 2nd Discipline Program. This program is delivered through WebCT, using NAIT's award-winning DI Viewer technology.

The following information is provided to help answer some of your questions.

Overview
Fresh skills and a bright future! As a Certified MRI Technologist you'll find the program focus on practical experience and training complements your previous study in medical radiology, nuclear medicine, radiation therapy or ultrasound. Exactly what you need to keep your skill up-to-date and remain competitive in the job market.

By training through NAIT you also have exclusive access to the NAIT DI Viewer, a system for viewing images online. This award-winning tool was developed at NAIT for the use of the MRI program.

Unlike any other MRI training found across Canada, NAIT can offer you the program exclusively online, allowing you to work your continuing education goals into your schedule. You can take the program from anywhere in Canada, completing your study with a sixteen week clinical practicum.

Students may begin their classes at any of the three annual intakes: January, May, and September.

Program Length
From the date of commencement, the student is allowed 3 years to complete the MRI 2nd Discipline courses, including practicum.

Prerequisites
Prospective students require a diploma from an accredited institute in Medical Radiology, Ultrasound, Nuclear Medicine, Radiation Therapy, or Combined Laboratory & X-Ray. A current license with CARDUP, CAMRT, ARRT, or ACCLXT license or a diploma from an accredited institute from one of these disciplines is required.

All applicants must send a copy of their current registration or license, as well as a completed copy of the MRI Applicant Screening Form and fax to Melissa Elliott at (780) 471-8993 for verification before entrance into the program. All students who meet the entrance requirements will be accepted on a first come first serve basis maximum enrollment is 15 per cohort.

Certificate and Transcript
Upon successful completion of the MRI 2nd Discipline courses, NAIT will mail graduates a certificate. Official transcripts are available (for a fee) through the Registrar's Office at (780) 471–6248 or 1-800-661-4077.

Canadian Association of Medical Radiation Technologists (CAMRT)
NAIT has accreditation from the Canadian Medical Association (CMA). Students are eligible to write the CAMRT national exam upon receiving a certificate from NAIT after successfully completing the MRI Second Discipline diploma. NOTE: Students must become CAMRT members to have access to the CAMRT exam; if necessary please contact CAMRT to inquire about becoming a member.

Sequence of Courses and Costs

MRI 101	Physics I	**$890.00**
MRI 201	Physics II	**$890.00**
MRI 102	Cross Sectional Anatomy I	**$485.00**
MRI 202	Cross Sectional Anatomy II	**$485.00**
MRI 100	Patient Care and Safety	**$615.00**
MRI 200	Techniques and Applications	**$615.00**
MRI 300	Clinical Practicum	**$1820.00**

There is a certain order in which the courses must be taken. One can take one per cohort. If one would like to take more than one course per cohort there is a certain order/combination that must be followed. **The maximum number of courses allowed per cohort is two.**

Both the Physics and Cross Sectional Anatomy classes can be taken by themselves or paired up. Keeping in mind that MRI101 Physics I must be taken before MRI201 Physics II; MRI102 Cross Sectional Anatomy I must be taken before MRI202 Cross Sectional Anatomy II.

In order to take the MRI100 Patient Care and Safety course you must have completed both Physics courses. Therefore you can pair up MRI100 Patient Care and Safety with one Cross Sectional Anatomy Course.

The MRI200 Techniques and Applications course is the final course in the didactic portion of the program. All other didactic courses must be completed before one is allowed to take this course.
The final course is the practicum portion of the program (MRI300). All didactic components must be completed before one is able to begin the practicum.

Sample Course Schedules if taking more than one course per Cohort:

Semester 1 - MRI101 & MRI102	or	Semester 1 - MRI101
Semester 2 - MRI201 & MRI202		Semester 2 - MRI201 & MRI102
Semester 3 - MRI100		Semester 3 - MRI202 & MRI100
Semester 4 - MRI200		Semester 4 - MRI200
Semester 5 - MRI300		Semester 5 - MRI300

Courses are offered three times per year: January 1, May 1, and September 1; each running for four consecutive months.

Textbook List

MRI 101 & MRI201	**MRI the Basics**, Ray H. Hashemi & William G. Bradley (ISBN 0781741572, 2nd edition) **MRI In Practice 4th Edition**, Catherine Westbrook & Carolyn Kaut (ISBN 9781444337433)
MRI 102 & MRI202	*There is no required textbook for this course, as all material for learning cross sectional anatomy is available online. Students will have access to the NAIT DI Viewer, which has been loaded with thousands of labeled MRI images.* **Sectional Anatomy for Imaging Professionals**, Lorrie L. Kelly and Connie M. Peterson (ISBN 9780323020039, 2nd edition) (optional)
MRI 100	**Magnetic Resonance Procedures: Health Effects and Safety Issues**, Frank Shellock (ISBN 9780849308741, 1st edition) **MRI In Practice 4th Edition**, Catherine Westbrook & Carolyn Kaut (ISBN 9781444337433)
MRI 200	**Handbook of MRI Technique**, Catherine Westbrook (ISBN 1405160853, 3rd edition) **CT & MRI Pathology A Pocket Atlas**, Michael L. Grey, The McGraw-Hill Companies (ISBN 007138040X, 1st edition)

WebCT Access and Tutoring

A tutor will be assigned to each student for the duration of his or her studies. A tutor will help guide the students through the courses and answer any questions. The student can contact the tutor for each course though WebCT e-mail.

1. Go to www.nait.ca/mynait
2. On the left hand side click on Create my student login
3. Enter your Student ID# and click OK
4. Enter your Last Name and Date of Birth
5. It will then provide you with your login name and you must choose a password
6. After you are logged in to the website on the left hand side click on WebCT CE6 WebClass
7. Login to WebCT using the login and password you've created
8. Click on the course

Students who encounter problems setting up this login can contact NAIT Technical Support at techsupport@nait.ca.

Tax Receipts

Income tax receipts are issued in February on your student portal for the tax year in which the student participated in the course. For example, a student working through the program between March and June of 2005 will receive a tax receipt in February 2006 for the 2005 tax year. Receipts will be issued in the student's name, regardless of who covers the cost of the course. Log on to your student portal at www.nait.ca/mynait to print off your tax receipt.

Refunds and Withdrawals
Before Class Start

Students must withdraw from a course *at least* three (3) full calendar days *prior* to course commencement to receive a full refund less a $50 administrative fee.

After Class Start

Students are required to fill out a School of Professional and Continuing Education Course Withdrawal Form if they are no longer attending class or are withdrawing from a course. Students are not entitled to any portion of a refund. If students do not provide written notification of a course withdrawal, a failing grade will be recorded on their record.

Course Descriptions

MRI101 - Magnetic Resonance Imaging Physics I
This course provides a detailed examination of MRI methodologies, including the fundamentals of MR physics, discussion of pulse sequences, image contrast, relaxation mechanisms and parameter trade-offs.

MRI201 - Magnetic Resonance Imaging Physics II
Building on the material covered in MRI Physics 101, students will continue to learn processes involved in MRI, including MR angiography, imaging of flow, compensation techniques and quality assurance scan parameters and artifacts.

MRI102 - Magnetic Resonance Imaging Cross Sectional Anatomy
This course is designed to enable students to identify anatomical areas in several different planes: on slides, cadaver specimens and on MRI images. Concentrating on the nervous system, chest, abdomen and pelvis, the course utilizes the NAIT DI viewer, which contains hundreds of labeled MRI images in different imaging planes and with different image weighting. This award-winning tool was developed at NAIT for the exclusive use of the MRI Program.

MRI202 - Magnetic Resonance Imaging Cross-Sectional Anatomy II
This course builds on earlier cross-sectional anatomy studies, dealing primarily with the musculoskeletal system, and covering the upper and lower limbs. Working with the NAIT DI viewer, students will be able to study from hundreds of labeled MRI images in different imaging planes and with different image weighting. This award-winning tool was developed at NAIT for the exclusive use of the MRI Program.

MRI100 - Magnetic Resonance Imaging Patient Care and Safety
Safety is key in the MRI environment and this course will teach the student everything necessary to be an effective and safe MRI Technologist. Course materials will prepare students with knowledge and skill in screening as well as assessing and assisting patients with MRI exams. The following areas are covered at the professional level required of a MRI Technologist:

- basic MRI history
- clinical history-taking
- patient and public screening
- contrast agents and sedative administration
- infection control
- physical and psychological preparation for a MRI exam
- safety regulations and biological hazards associated with MRI.

MRI200 - Magnetic Resonance Imaging Techniques and Application
In this course, students will begin applying the theory acquired in earlier coursework. There will be discussion on various pathologies and how they are seen on the MRI. Students will begin to develop an understanding of how and why MRI techniques are applied in the field. Several images showing basic positioning and coil use will prepare you for the clinical environment.

MRI300 - Magnetic Resonance Imaging Practicum
During the practicum, students will have the opportunity to apply their learning in a clinical environment. Students will spend their practicum time in a hospital/clinic that has been approved by NAIT for training in MRI. It may be necessary for some students to rotate between clinical sites to get a well-rounded MRI experience.

Students will be required to complete a logbook of MRI procedures prior to the completion of the sixteen-week clinical practicum. During the practicum the students will also be expected to complete a number of assignments. Many of these assignments deal with interaction in the workplace, and how to deal with colleagues and patients. As well, each student will be required to write a case study on an interesting case they took part in and submit it to the practicum coordinator.

MRI 300 is a 4-month practicum. The NAIT MRI program coordinator will provide criteria to guide the employer and the student through the practicum.